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Pudipeddi et al.(10) **Pub. No.: US 2009/0164440 A1**(43) **Pub. Date: Jun. 25, 2009**(54) **QUICK FILENAME LOOKUP USING NAME
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WA (US)(21) Appl. No.: **12/389,396**(22) Filed: **Feb. 20, 2009****Related U.S. Application Data**(63) Continuation-in-part of application No. 11/229,485,
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20, 2008, provisional application No. 60/637,407,
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G06F 17/30 (2006.01)(52) **U.S. Cl.** **707/3**; 707/100; 707/E17.014;
707/E17.044; 707/200; 707/E17.005(57) **ABSTRACT**

File system methods and systems enabling efficient detection that a filename exists, by executing a hash function on the file name to reduce the overall computational complexity of determining that a directory entry might match the target filename, prior to performing the string comparison to determine the entry does match the target filename. A cross-device extensible means of providing a conversion function, such as uppercasing the filename, occurs prior to the hash. Methods of creating, deleting, and modifying the directory entries is further provided, as well as details of an embodiment of the file system described.

